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RAW SEQUENCE LISTING

DATE: 01/26/2002

PATENT APPLICATION: US/10/000,321

TIME: 13:42:58

Input Set : N:\Crf3\RULE60\10000321.raw

Output Set: N:\CRF3\01252002\J000321.raw

SEQUENCE LISTING

3 (1) GENERAL INFORMATION:

5 (i) APPLICANT: BRUST, Stefan

6 KNAPP, Stefan

7 GERKEN, Manfred

8 GUERTLER, Lutz

10 (ii) TITLE OF INVENTION: Peptides derived from a retrovirus of
11 the HIV group, and their use

13 (iii) NUMBER OF SEQUENCES: 11

15 (iv) CORRESPONDENCE ADDRESS:

16 (A) ADDRESSEE: Foley & Lardner

17 (B) STREET: 3000 K Street, N.W., Suite 500

18 (C) CITY: Washington

19 (D) STATE: D.C.

20 (E) COUNTRY: USA

21 (F) ZIP: 20007-5109

23 (v) COMPUTER READABLE FORM:

24 (A) MEDIUM TYPE: Floppy disk

25 (B) COMPUTER: IBM PC compatible

26 (C) OPERATING SYSTEM: PC-DOS/MS-DOS

27 (D) SOFTWARE: PatentIn Release #1.0, Version #1.30

29 (vi) CURRENT APPLICATION DATA:

C--> 30 (A) APPLICATION NUMBER: US/10/000,321

C--> 31 (B) FILING DATE: 04-Dec-2001

32 (C) CLASSIFICATION:

34 (vii) PRIOR APPLICATION DATA:

35 (A) APPLICATION NUMBER: 09/131,551

36 (B) FILING DATE:

38 (viii) ATTORNEY/AGENT INFORMATION:

39 (A) NAME: SANDERCOCK, Colin G.

40 (B) REGISTRATION NUMBER: 31,298

41 (C) REFERENCE/DOCKET NUMBER: 58315/106/BEAK

43 (ix) TELECOMMUNICATION INFORMATION:

44 (A) TELEPHONE: (202)672-5300

45 (B) TELEFAX: (202)672-5399

46 (C) TELEX: 904136

49 (2) INFORMATION FOR SEQ ID NO: 1:

51 (i) SEQUENCE CHARACTERISTICS:

52 (A) LENGTH: 48 amino acids

53 (B) TYPE: amino acid

54 (C) STRANDEDNESS:

55 (D) TOPOLOGY: linear

59 (ix) FEATURE:

ENTERED

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60      (A) NAME/KEY: Modified-site
61      (B) LOCATION: 29
62      (D) OTHER INFORMATION: /note= "Xaa represents Cys or Ser"
64      (ix) FEATURE:
65          (A) NAME/KEY: Modified-site
66          (B) LOCATION: 35
67          (D) OTHER INFORMATION: /note= "Xaa represents Cys or Ser"
70      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
72      Val Trp Gly Ile Arg Gln Leu Arg Ala Arg Leu Gln Ala Leu Glu Thr
73      1          5          10          15
W--> 75      Leu Ile Gln Asn Gln Gln Arg Leu Asn Leu Trp Gly Xaa Lys Gly Lys
76      20          25          30
W--> 78      Leu Ile Xaa Tyr Thr Ser Val Lys Trp Asn Thr Ser Trp Ser Gly Arg
79      35          40          45
82      (2) INFORMATION FOR SEQ ID NO: 2:
84          (i) SEQUENCE CHARACTERISTICS:
85              (A) LENGTH: 23 amino acids
86              (B) TYPE: amino acid
87              (C) STRANDEDNESS:
88              (D) TOPOLOGY: linear
94          (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
96      Asn Gln Gln Arg Leu Asn Leu Trp Gly Cys Lys Gly Lys Leu Ile Cys
97      1          5          10          15
99      Tyr Thr Ser Val Lys Trp Asn
100     20
102     (2) INFORMATION FOR SEQ ID NO: 3:
104         (i) SEQUENCE CHARACTERISTICS:
105             (A) LENGTH: 26 amino acids
106             (B) TYPE: amino acid
107             (C) STRANDEDNESS:
108             (D) TOPOLOGY: linear
114         (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
116     Arg Leu Gln Ala Leu Glu Thr Leu Ile Gln Asn Gln Gln Arg Leu Asn
117     1          5          10          15
119     Leu Trp Gly Cys Lys Gly Lys Leu Ile Cys
120     20          25
122     (2) INFORMATION FOR SEQ ID NO: 4:
124         (i) SEQUENCE CHARACTERISTICS:
125             (A) LENGTH: 26 amino acids
126             (B) TYPE: amino acid
127             (C) STRANDEDNESS:
128             (D) TOPOLOGY: linear
134         (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
136     Arg Leu Gln Ala Leu Glu Thr Leu Ile Gln Asn Gln Gln Arg Leu Asn
137     1          5          10          15
139     Leu Trp Gly Ser Lys Gly Lys Leu Ile Ser
140     20          25
142     (2) INFORMATION FOR SEQ ID NO: 5:
144         (i) SEQUENCE CHARACTERISTICS:

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145      (A) LENGTH: 23 amino acids
146      (B) TYPE: amino acid
147      (C) STRANDEDNESS:
148      (D) TOPOLOGY: linear
154      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
156      Asp Gln Gln Leu Leu Gly Ile Trp Gly Cys Ser Gly Lys Leu Ile Cys
157      1          5          10          15
159      Thr Thr Ala Val Pro Trp Asn
160      20
162 (2) INFORMATION FOR SEQ ID NO: 6:
164      (i) SEQUENCE CHARACTERISTICS:
165          (A) LENGTH: 26 amino acids
166          (B) TYPE: amino acid
167          (C) STRANDEDNESS:
168          (D) TOPOLOGY: linear
174      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
176      Arg Ile Leu Ala Val Glu Arg Tyr Leu Lys Asp Gln Gln Leu Leu Gly
177      1          5          10          15
179      Ile Trp Gly Cys Ser Gly Lys Leu Ile Cys
180      20          25
182 (2) INFORMATION FOR SEQ ID NO: 7:
184      (i) SEQUENCE CHARACTERISTICS:
185          (A) LENGTH: 26 amino acids
186          (B) TYPE: amino acid
187          (C) STRANDEDNESS:
188          (D) TOPOLOGY: linear
194      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
196      Arg Ile Leu Ala Val Glu Arg Tyr Leu Lys Asp Gln Gln Leu Leu Gly
197      1          5          10          15
199      Ile Trp Gly Ser Ser Gly Lys Leu Ile Ser
200      20          25
202 (2) INFORMATION FOR SEQ ID NO: 8:
204      (i) SEQUENCE CHARACTERISTICS:
205          (A) LENGTH: 32 base pairs
206          (B) TYPE: nucleic acid
207          (C) STRANDEDNESS: single
208          (D) TOPOLOGY: linear
214      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
216      TGTGTGGTAC CGCAGCGGCA ACAGCGCTGA CG 32
218 (2) INFORMATION FOR SEQ ID NO: 9:
220      (i) SEQUENCE CHARACTERISTICS:
221          (A) LENGTH: 32 base pairs
222          (B) TYPE: nucleic acid
223          (C) STRANDEDNESS: single
224          (D) TOPOLOGY: linear
230      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:
232      GTGTGTCTAG TTTAGTTATG TCAAACCAAT TC 32
234 (2) INFORMATION FOR SEQ ID NO: 10:
236      (i) SEQUENCE CHARACTERISTICS:

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237 (A) LENGTH: 146 amino acids
 238 (B) TYPE: amino acid
 239 (C) STRANDEDNESS:
 240 (D) TOPOLOGY: linear

246 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:
 248 Ala Ala Thr Ala Leu Thr Val Arg Thr His Ser Val Leu Lys Gly Ile
 249 1 5 10 15
 251 Val Gln Gln Gln Asp Asn Leu Leu Arg Ala Ile Gln Ala Gln Gln His
 252 20 25 30
 254 Leu Leu Arg Leu Ser Val Trp Gly Ile Arg Gln Leu Arg Ala Arg Leu
 255 35 40 45
 257 Gln Ala Leu Glu Thr Leu Ile Gln Asn Gln Gln Arg Leu Asn Leu Trp
 258 50 55 60
 260 Gly Cys Lys Gly Lys Leu Ile Cys Tyr Thr Ser Val Lys Trp Asn Thr
 261 65 70 75 80
 263 Ser Trp Ser Gly Arg Tyr Asn Asp Asp Ser Ile Trp Asp Asn Leu Thr
 264 85 90 95
 266 Trp Gln Gln Trp Asp Gln His Ile Asn Asn Val Ser Ser Ile Ile Tyr
 267 100 105 110
 269 Asp Glu Ile Gln Ala Ala Gln Asp Gln Gln Glu Lys Asn Val Lys Ala
 270 115 120 125
 272 Leu Leu Glu Leu Asp Glu Trp Ala Ser Leu Trp Asn Trp Phe Asp Ile
 273 130 135 140
 275 Thr Lys
 276 145

278 (2) INFORMATION FOR SEQ ID NO: 11:
 280 (i) SEQUENCE CHARACTERISTICS:
 281 (A) LENGTH: 145 amino acids
 282 (B) TYPE: amino acid
 283 (C) STRANDEDNESS:
 284 (D) TOPOLOGY: linear

290 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:
 292 Val Ser Leu Thr Leu Thr Val Gln Ala Arg Gln Leu Leu Ser Gly Ile
 293 1 5 10 15
 295 Val Gln Gln Gln Asn Asn Leu Leu Arg Ala Ile Glu Ala Gln Gln His
 296 20 25 30
 298 Leu Leu Gln Leu Thr Val Trp Gly Ile Lys Gln Leu Gln Ala Arg Val
 299 35 40 45
 301 Leu Ala Val Glu Arg Tyr Leu Arg Asp Gln Gln Leu Leu Gly Ile Trp
 302 50 55 60
 304 Gly Cys Ser Gly Lys Leu Ile Cys Thr Thr Ala Val Pro Trp Asn Ala
 305 65 70 75 80
 307 Ser Trp Ser Asn Lys Ser Leu Glu Asp Ile Trp Asp Asn Met Thr Trp
 308 85 90 95
 310 Met Gln Trp Glu Arg Glu Ile Asp Asn Tyr Thr Asn Thr Ile Tyr Thr
 311 100 105 110
 313 Leu Leu Glu Glu Ser Gln Asn Gln Gln Glu Lys Asn Glu Gln Glu Leu
 314 115 120 125
 316 Leu Glu Leu Asp Lys Trp Ala Ser Leu Trp Asn Trp Phe Ser Ile Thr

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317	130	135	140
319	Asn		
320	145		

VERIFICATION SUMMARY

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PATENT APPLICATION: US/10/000,321

TIME: 13:42:59

Input Set : N:\Crf3\RULE60\10000321.raw

Output Set: N:\CRF3\01252002\J000321.raw

L:30 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]
L:31 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]
L:75 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:78 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1